Ambiguous Words Detector™ is an IBM® Rational® DOORS® accelerator product from River North Solutions
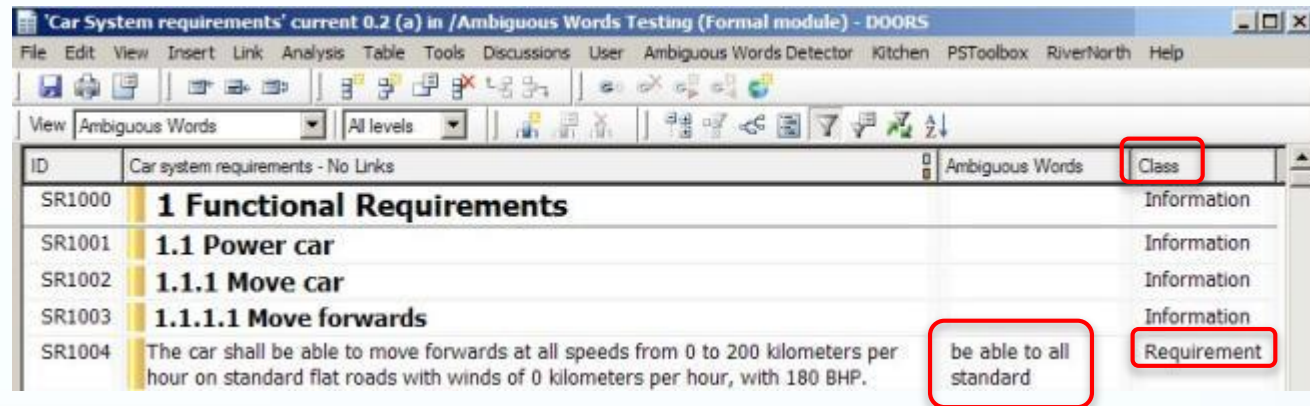
Ambiguous Words Detector™ Tool for DOORS

Automatic detection of ambiguous words in requirements

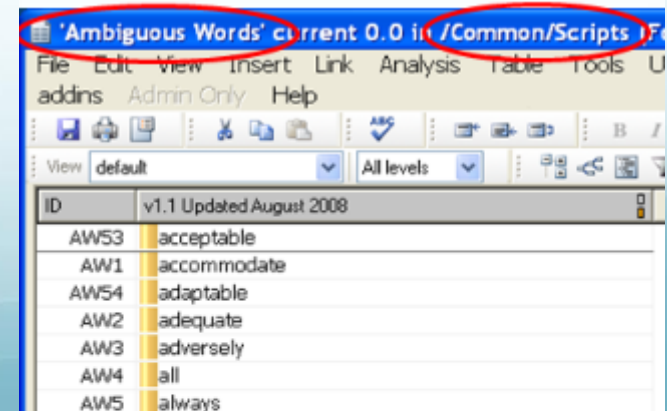# Ambiguous Words Detector (AWD)

- Automatically detects usage of ambiguous words in **requirements**

- Blends into <u>your</u> DOORS schema
  - Recognizes requirements from attribute/enumerated value(s) used in <u>your</u> schema to define objects as requirements
  - Allows more than one requirement designator (e.g. functional & nonfunctional)

- Ambiguous words search list contained in DOORS module
  - No coding required to modify ambiguous words in search list

Requirement Author Use Case

- Detected Ambiguous Words listed in "Ambiguous Words" column
- Requirement author must analyze requirements to
  - (a) remediate Ambiguous Words or
  - (b) designate listed Ambiguous Word(s) as legitimate (AW OK = True)

Ambiguous Words Search List MODULE

- **DOORS module-based**

- Enterprise scope

- Easy to modify

- Easy to maintain

- Best practice: CCB approval to add/modify/ delete words

AWD Value Proposition

Requirements Rework

- Errors late detected in the Maintenance Phase can cost up to 200 times more than detected early in Requirement Analysis phase[1]

- More than 40% of development budget can be consumed by poor requirements[2]

Project Delays

- Being late to market by 6 months or more will cost organizations 33% of the 5-year ROI[3]

Ambiguous Words Detector

- Avoid defects from ambiguities by remediating at point of insertion using AWD

Requirements issues drive excessive rework, delays, poor quality, and project failures

Time not spent in requirements is time spent in rework (at cost x200)

Relative Cost to Repair

200
50
20
10
5
1-2
0

Analysis   Design   Coding   Unit Test   Acceptance Test   Maintenance

Stage in which Requirements Error Is Discovered
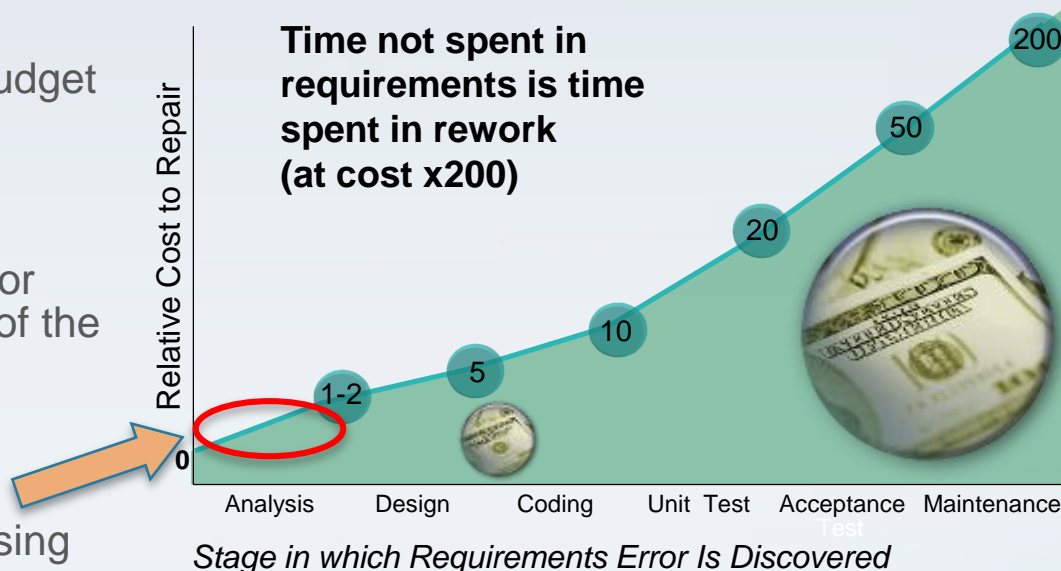
"Our research indicates 80-plus percent of development failures result directly from poor requirements gathering, management, and analysis."

IDC, November 2007

Sources: 1) Leffingwell & Widrig, "Managing Software Requirements," Addison Wesley, 1999 2) IAG Consulting, 2008 3) Don Reinertsen, McKinsey, 1983

River North Accelerator Tools for Requirements Management & Document Publishing

DOORS

Word, PDF

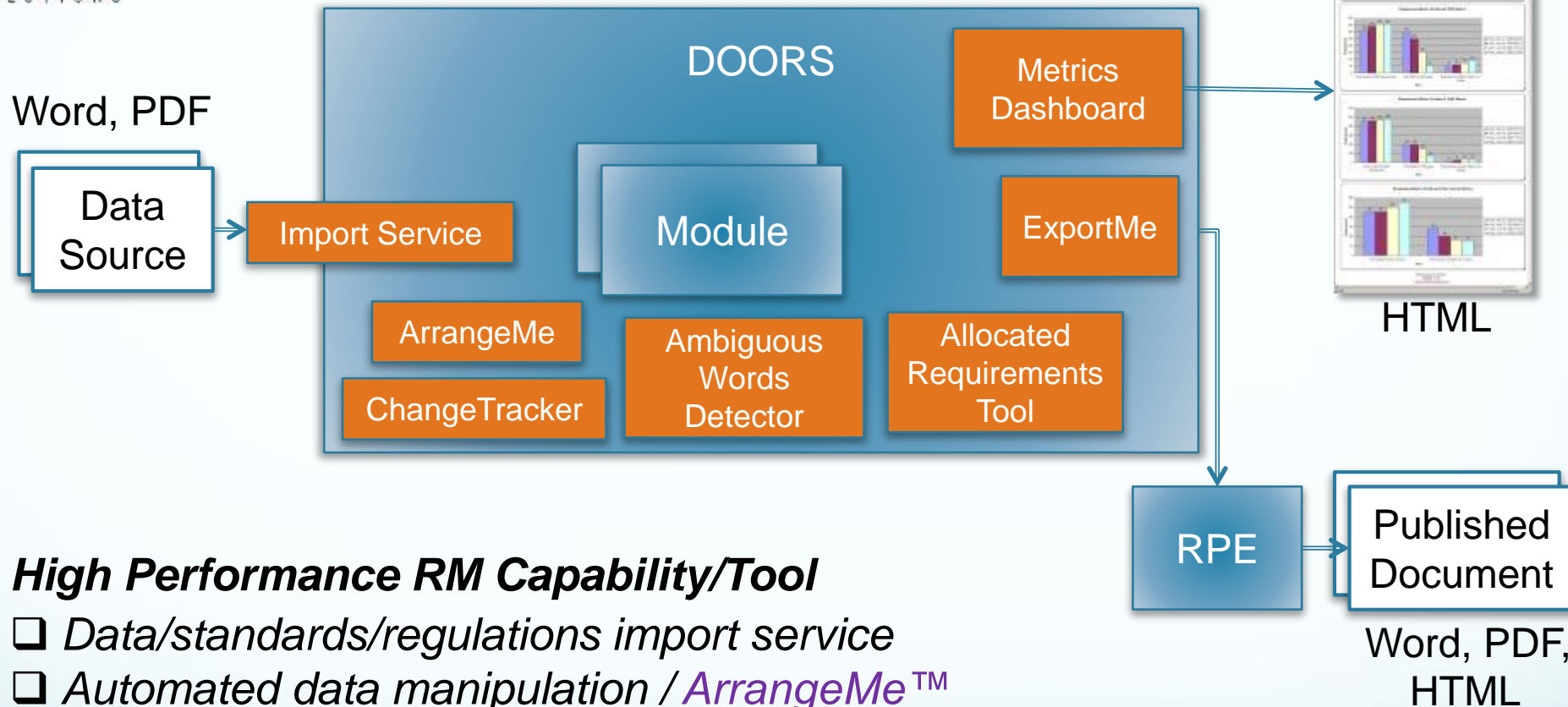**Data Source** → **Import Service**

Module

Metrics Dashboard → HTML

ExportMe

ArrangeMe

ChangeTracker

Ambiguous Words Detector

Allocated Requirements Tool

RPE → **Published Document**

Word, PDF, HTML

High Performance RM Capability/Tool

- ❑ *Data/standards/regulations import service*
- ❑ *Automated data manipulation / ArrangeMe™*
- ❑ *Boost requirement quality, reduce churn / Ambiguous Words Detector™*
- ❑ *Automated, simplified, consistent document publishing / ExportMe™*
- ❑ *Monitor leading indicator trends / Metrics Dashboard™*
- ❑ *Display revision markup using rich text / ChangeTracker™*
- ❑ *Reuse requirements / Allocated Requirements Tool™*

River North Profile – Industries/Clients*, Products

Aerospace & Defense
- Aerojet Rocketdyne
- Boeing
- Collins Aerospace
- Crane Aerospace
- LMCO-NASA
- NASA JPL
- Northrop Grumman

Energy
- NuScale Power
- Sandia National Labs
- Westinghouse Nuclear

Automotive
- Ford Motor Company
- Honda Motor Company
- Johnson Controls

Medical Device
- Ameda
- Ascensia Diabetes Care
- Baxter Healthcare
- Bayer Healthcare
- Eli Lilly
- Hospira
- J&J Vision
- Roche Diagnostics
- St. Jude Medical (Abbott)

Semiconductor
- NXP Semiconductors

Transportation
- Ansaldo STS
- Bombardier Transportation
- GE Transportation

Telecommunications
- Comcast
- Motorola Solutions

Industrial
- Chamberlain
- HP Enterprise Services

DOORS Classic Accelerator Products from River North

- *Ambiguous Words Detector™ (AWD)* – boosts requirement quality by automatically detecting ambiguous words in DOORS

- *ArrangeMe™* – automated DOORS data manipulation/movement

- *Requirement Metrics Dashboard™ (RMD)* – automated metrics production for DOORS

- *ChangeTracker™* – revision markup displayed using rich text in DOORS

- *ExportMe™* – document publishing automation taken to a new level in DOORS

- *Allocated Requirements Tool™ (ART)* – facilitates requirement reuse in DOORS

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Advanced Business Partner IBM

* Partial List

For More Information…

- Ambiguous Words Detector™ can be customized to suit your organization's needs
- Contact Bob Parro at bparro@rivernorthsolutions.com